THE AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE

Combining The American Journal of Tropical Medicine
and The Journal of the National Malaria Society

VOLUME 4

EDITED BY

L. W. HACKETT

EDITORIAL BOARD

G. ROBERT COATNEY, *Chairman*

ERNEST CARROLL FAUST
HAROLD FARNSWORTH GRAY
WILLIAM McD. HAMMON
HERBERT G. JOHNSTONE
EDWIN H. LENNETTE
HARRY MOST
LLOYD ROZEBOOM

BALTIMORE, MD.
THE WILLIAMS AND WILKINS COMPANY
1955

CONTENTS

JANUARY, No. 1

Three cases of human infection with *Isospora* in Georgia. CONRAD F. ROUTH, JOHN E. MCCROAN, JR. AND CURTIS G. HAMES 1

Atabrine in hepatic amebiasis. Y. ABDEL GHAFFAR AND M. ABDEL GHAFFAR 9

First report on the treatment of sleeping sickness with Puromycin. CARLOS TRINCÃO, ALMEIDA FRANCO, ALFREDO NOGUEIRA, A. R. PINTO AND HEINZ MÜHLPFORDT 13

A report of a case of imported visceral leishmaniasis of a dog in the United States. R. E. THORSON, W. S. BAILEY, B. F. HOERLEIN AND H. R. SEIBOLD 18

A new concentration technic for the demonstration of protozoa and helminth eggs in feces. W. BLAGG, E. L. SCHLOEGEL, N. S. MANSOUR AND G. I. KHALAF 23

Leptospirosis of man and animals in urban, rural and jungle areas of Southeast Asia. C. L. WISSEMAN, JR., R. TRAUB, W. S. GOCHENOUR, JR., J. E. SMADEL AND W. E. Lancaster 29

The value of the quantitative complement-fixation test for syphilis in leprosy. J. O. DE ALMEIDA, L. SOUZA LIMA AND R. P. S. CARVALHO 41

Filariasis in Liberia. THOMAS A. BURCH AND HENRY J. GREENVILLE 47

Studies on the vectors of *Wuchereria bancrofti* in Liberia. HENRY M. GELFAND 52

The effect of cortisone on the immune response of the white rat to *Nippostrongylus muris*. PAUL P. WEINSTEIN 61

Susceptibility studies in schistosomiasis. II. Susceptibility of wild mammals to infection by *Schistosoma mansoni* in Egypt, with emphasis on rodents. ROBERT E. KUNTZ AND GEORGE M. MALAKATIS 75

Studies on mites as vectors of Western equine and St. Louis encephalitis viruses in California. W. C. REEVES, W. MCD. HAMMON, W. H. DOETSCHMAN, H. E. MCCLURE AND G. SATHER 90

Laboratory investigations on the role of bird mites in the transmission of Eastern and Western equine encephalitis. ROY W. CHAMBERLAIN AND ROBERT K. SIKES 106

Mites as possible vectors or reservoirs of equine encephalomyelitis in Texas. S. EDWARD SULKIN, CHARLES L. WISSEMAN, JR., ERNEST M. IZUMI AND CHRISTINE ZARAFONETIS 119

Moray eel poisoning and a preliminary report on the action of the toxin. R. J. RALLS AND BRUCE W. HALSTEAD 136

Dispersion of marked American cockroaches from sewer manholes in Phoenix, Arizona. WILLIAM B. JACKSON AND PAUL P. MAIER 141

The control of the mongoose in Puerto Rico. DAVID PIMENTEL 147

Results of laboratory screening tests of chemical compounds for molluscicidal activity. III. Derivatives of abietic acid. M. O. NOLAN AND HOWARD W. BOND 152

Books received 156

Book reviews: *Protozoology*, by Kudo; *Handbook of Tropical Dermatology and Medical Mycology, Volume II*, by Simons (Ed.); *Antibiotics Annual 1953–1954, Proceedings of the Symposium on Antibiotics*, by Welch (Ed.); *A Manual of Tropical Medicine*, by Mackie, Hunter and Worth; *The Laboratory Diagnosis of Leptospirosis*, by Wolff; *The Dynamics of Virus and Rickettsial Infections*, by Hartman, Horsfall, and Kidd (Eds.); *The Meaning of Social Medicine*, by Galdston; *The Science Book of Wonder Drugs*, by Cooley 156

Membership list of the American Society of Tropical Medicine and Hygiene 161

MARCH, No. 2

Importance of tropical medicine. FREDERICK J. BRADY (Presidential Address) 195

Recent advances in our knowledge of dengue and sandfly fever. Craig Lecture. ALBERT B. SABIN 198

Review of investigations in malaria chemotherapy (U.S.A.) 1946 to 1954. L. H. SCHMIDT AND G. ROBERT COATNEY 208
Toxicity studies of pyrimethamine (Daraprim). RAYMOND J. DERN, ERNEST BEUTLER, JOHN ARNOLD, ALLAN LORINCZ, MATTHEW BLOCK, AND ALF S. ALVING 217
The treatment of malaria with hydroxychloroquine. MARK T. HOEKENGA 221
Antiamebic action of 5-chloro-7-diethylaminomethyl-8-quinolinol and of other substituted 8-quinolinols in vitro and in experimental animals. PAUL E. THOMPSON, J. W. REINERTSON, ANITA BAYLES, D. A. MCCARTHY AND EDWARD F. ELSLAGER .. 224
Human trypanosomiasis in Northeastern Liberia. GEORGE W. HARLEY AND MAX J. MILLER 249
Experimental inoculation of bacteria-free *Trichomonas vaginalis* into human vaginae and its effect on the glycogen content of vaginal epithelia. KEIZO ASAMI AND MIYOKO NAKAMURA 254
Effects of an overdose of chloroquine in a pregnant woman. KNUD KJAER 259
Studies in shigellosis. I. General considerations, locale of studies, and methods. A. R. HIGGINS AND T. M. FLOYD 263
Studies in shigellosis. II. Observations on incidence and etiology of diarrheal disease in Egyptian village children. A. R. HIGGINS, T. M. FLOYD AND M. A. KADER 271
Studies in shigellosis. III. A controlled evaluation of a monovalent *Shigella* vaccine in a highly endemic environment. A. R. HIGGINS, T. M. FLOYD AND M. A. KADER . 281
Studies in shigellosis. IV. A controlled trial of sulfadiazine, dihydrostreptomycin and oxytetracycline as long term prophylaxis agents in a highly endemic environment for shigellosis. A. R. HIGGINS, T. M. FLOYD AND M. ABDEL KADER 289
Atypical chronic intestinal shigellosis. YASIN ABD EL GHAFFAR AND MOHAMAD ABD EL GHAFFAR 301
Incidence of tularemia and Rocky Mountain spotted fever among common ticks of Arkansas. ERNEST L. CALHOUN AND HUGH I. ALFORD, JR. 310
Tube and slide technic in the hemagglutination of *Vibrio comma*. OSCAR FELSENFELD, NOEL L. FREEMAN AND VIRGINIA L. MOORING 318
Treatment of *Enterobius vermicularis* infections with piperazine. H. W. BROWN AND K. F. CHAN 321
The treatment of cases of ascariasis with piperazine citrate. With observations of the effect of the drug on other helminthiases. CLYDE SWARTZWELDER, JOSEPH H. MILLER AND ROBERT W. SAPPENFIELD 326
Treatment of wuchereriasis and onchocerciasis with suramin sodium. THOMAS A. BURCH 332
Cutaneous myiasis of the scalp due to *Dermatobia hominis* (Linnaeus Jr.) (Diptera; Cuterebridae). HERBERT T. DALMAT 334
Transactions of the American Society of Tropical Medicine and Hygiene. Third annual meeting, Memphis, Tennessee, November 3–6, 1954 336
Constitution and By-Laws of the American Society of Tropical Medicine and Hygiene 370
Minutes of the twenty-first annual business meeting of the American Academy of Tropical Medicine 374
Correspondence 376
Books Received 378
Book reviews: *Die Biochemie der Viren*, by Schramm; *Explored Areas of Arthropod-borne Viral Infections*, map by American Geographical Society 378

MAY, NO. 3

SYMPOSIUM ON SCHISTOSOMIASIS

Introduction to the schistosomiasis symposium. DONALD B. MCMULLEN 381
Biology of the schistosome complexes. ROBERT E. KUNTZ 383

Discussion of the paper by Robert E. Kuntz. GEORGE R. LaRUE 414
The natural history and control of the snails that transmit the schistosomes of man. LOUIS OLIVIER 415
Discussion of the paper by L. J. Olivier. HENRY VAN DER SCHALIE 424
The biology and control of the amphibious snails that serve as intermediate hosts for *Schistosoma japonicum*. LAWRENCE S. RITCHIE 426
Discussion of the paper by Lawrence S. Ritchie. H. F. HSÜ 442
Immunological aspects of infections with *Schistosoma mansoni*. JOSÉ OLIVER-GONZÁLEZ, PRESTON M. BAUMAN AND A. S. BENENSON 443
Discussion of Dr. Oliver-González' paper. FREDERIK B. BANG 453
Treatment of schistosomiasis. HARRY MOST 455
Discussion of Dr. Harry Most's report on therapy of schistosomiasis. HAMILTON H. ANDERSON 460

Some contributions of tropical peoples in the preservation of food materials. WILLIAM H. ADOLPH 461
Epidemiology of amebiasis: possible influence of water supply, coincident with diverse features of terrain, on the occurrence of intestinal protozoa. DALE E. WYKOFF, J. R. C. FONSECA AND L. S. RITCHIE 465
The use of penicillin and streptomycin in the routine cultivation of amebae from fecal specimens. LOIS NORMAN AND M. M. BROOKE 472
The effectiveness of the PVA-fixative technique in revealing intestinal amebae in diagnostic cultures. LOIS NORMAN AND M. M. BROOKE 479
Historical evidence for interference between dengue and yellow fever. HARALD FREDERIKSEN 483
Classification of leptospiral isolates from Malaya, Thailand and North Borneo. AARON D. ALEXANDER, PSYCHE W. WETMORE, LARUE B. EVANS, HELEN JEFFRIES AND CHESTER A. GLEISER 492
Treatment of the acute febrile phase of Carrion's disease with chloramphenicol. OSCAR URTEAGA B. AND EUGENE H. PAYNE 507
A survey of poliomyelitis virus antibodies in French Morocco. JOHN R. PAUL AND DOROTHY M. HORSTMANN 512
A survey of forest mosquitoes in relation to sylvan yellow fever in the Panama isthmian area. HAROLD TRAPIDO, PEDRO GALINDO AND STANLEY J. CARPENTER 525
Forest canopy mosquitoes associated with the appearance of sylvan yellow fever in Costa Rica, 1951. PEDRO GALINDO AND HAROLD TRAPIDO 543
Rabies transmitted by bats in British Guiana. B. B. G. NEHAUL 550
An additional species of insectivorous bat naturally infected with rabies. J. E. GRIMES, R. B. EADS AND J. V. IRONS 554
A study of the oviposition activity of three species of *Anopheles* in the laboratory. ROBERT C. WALLIS 557
Books received 564
Book reviews: *Histology*, by Greep (Ed.); *Plague*, by Pollitzer; *Medical Mycology*, by Simons (Ed.); *Malnutrition in African Mothers, Infants and Young Children* Report of 2nd Inter-African Conference on Nutrition; *Diseases of the Skin for Practitioners and Students*, by Andrews; *Histopathologic Technic and Practical Histochemistry*, by Lillie; *Wine as Food and Medicine*, by Lucia; *Care of Laboratory Animals*, American Public Health Association 564

JULY, No. 4

Yellow fever conference, 21–22 December, 1954. Held under the auspices of the Pan American Sanitary Bureau 571
The isolation of yellow fever virus from the livers of naturally infected red howler monkeys. CHARLES R. ANDERSON AND WILBUR G. DOWNS 662

The investigation of a sylvan yellow fever epizootic on the north coast of Honduras, 1954. Harold Trapido and Pedro Galindo 665
Studies on the ameba-bacteria relationship in amebiasis. Comparative results of the intracecal inoculation of germfree, monocontaminated, and conventional guinea pigs with *Entamoeba histolytica*. Bruce P. Phillips, Patricia A. Wolfe, Charles W. Rees, Helmut A. Gordon, Willard H. Wright, and James A. Reyniers.... 675
Erythromycin stearate against systemic amebiasis in Colombia. Hamilton H. Anderson, Thomas L. Nelson, Carlos Carbono and José Diaz 693
Treatment of amebiasis with erythromycin. Victor M. Villarejos 699
Chemotherapy of African sleeping sickness. I. Chemotherapy of experimental *Trypanosoma gambiense* infection in mice (*Mus musculus*) with nitrofurazone. Ardzroony Packchanian 705
The microscopical detection and identification of malaria parasites in preparations from clotted blood. Dorothy M. Melvin 712

SYMPOSIUM ON DIARRHEAL DISEASES OTHER THAN AMEBIASIS

Introduction. James Watt 716
IV. Diarrheal disease control studies. The relationship of certain environmental factors to the prevalence of *Shigella* infection. William H. Stewart, Leland J. McCabe, Jr., Emmarie C. Hemphill and Thelma de Capito 718
Salmonellosis. The role of food processing plants in the dissemination of *Salmonella*. Albert V. Hardy and Mildred M. Galton 725
The clinical significance of bacteria in the coliform paracolon, *Pseudomonas* and similar groups. Myron E. Wegman 731
The nonamebic nonbacillary diarrheal disorders. Irving Gordon 739

Course of egg output over a 15 year period in a case of experimentally induced necatoriasis americanus, in the absence of hyperinfection. Eddy D. Palmer 756
The control of rural fly populations in south-eastern Georgia with parathion-impregnated cords. John W. Kilpatrick 758
Effectiveness of *Latrodectus tredecimguttatus* antivenin in protecting laboratory mice against effects of intraperitoneal injections of *Latrodectus mactans* venom. Hugh L. Keegan 762
Books received 765
Book reviews: *Welt-Seuchen-Atlas* (*World Atlas of Epidemic Diseases*) Part I, Rodenwaldt, ed.; *Manson's Tropical Diseases*, Manson-Bahr, ed.; *Mosquitoes—Their Bionomics and Relation to Disease*, by Horsfall; *Laboratory Techniques in Rabies*, World Health Organization monograph, No. 23 765

SEPTEMBER, No. 5

Teaching and research in parasitology and tropical medicine in medical schools of the United States: a survey and a fellowship program. Henry E. Meleney and William W. Frye 769
The contribution of medical geography to the etiology of disease. Jacques M. May 776
Infectivity to mosquitoes of *Plasmodium falciparum* as related to gametocyte density and duration of infection. Geoffrey M. Jeffrey and Don E. Eyles 781
Suppression of malaria by monthly drug administration. Max J. Miller 790
Fifty years of malaria control in the Panama area. Edward J. Dehné 800
Amebic hepatitis. Laboratory findings and treatment with erythromycin. Thomas L. Nelson, Hamilton H. Anderson, and Owen Thomas 812
Some factors related to *Entamoeba histolytica* growth on rice products in a simple medium. E. Clifford Nelson and Muriel M. Jones 822
The effect of oxysteroids on *Trypanosoma cruzi* infection in mice. Harry Seneca and Diane Ides 833

Activities of the Trinidad Regional Virus Laboratory in 1953 and 1954 with special reference to the yellow fever outbreak in Trinidad, B. W. I. WILBUR G. DOWNS, THOMAS H. G. AITKEN, AND CHARLES R. ANDERSON 837
Sindbis virus: a newly recognized arthropod-transmitted virus. R. M. TAYLOR, H. S. HURLBUT, T. H. WORK, J. R. KINGSTON, AND T. E. FROTHINGHAM 844
Tissue culture applied to the study of Sindbis virus. THOMAS E. FROTHINGHAM 863
Indigenous wild birds of the Nile Delta as potential West Nile virus circulating reservoirs. TELFORD H. WORK, HERBERT S. HURLBUT, AND R. M. TAYLOR 872
Spores of helicosporous fungi resembling microfilariae in blood films. LOIS NORMAN AND ALAN W. DONALDSON 889
A cursory survey of the intestinal parasites of natives living in Southwest Sudan. ROBERT E. KUNTZ, DEANER K. LAWLESS AND NOSHY SAAD MANSOUR 895
Intestinal parasitism in an irrigated community of western Nebraska. GEORGE W. KELLEY, JR. 901
Serological reactions against egg antigens as an aid in the evaluation of therapy in schistosomiasis. JOSÉ OLIVER-GONZÁLEZ, FRANK L. RAMOS AND COIT M. COKER 908
The portal circulation in hepatic fibrosis associated with bilharziasis. ERNEST BIBAWI, AHMED A. EL-DEEB AND MAHMOUD M. MAHFOUZ 913
Onchocerciasis in Liberia. THOMAS A. BURCH, DONALD M. QUALLS, AND HENRY J. GREENVILLE 923
Treatment of elephantiasis with cortisone in French Oceania. A preliminary report. EDWARD K. MARKELL AND JACQUES KERREST 930
The effect of irradiation of *Trichinella spiralis* on immunity and its public health implication. THOMAS B. MAGATH AND JOHN H. THOMPSON, JR. 941
Therapy of ascariasis with piperazine. H. W. BROWN 947
A case of human intestinal myiasis caused by *Muscina stabulans* (Fallén). GENE R. DEFOLIART AND E. C. PELTON 953
Books received 956
Book reviews: *Perspectives and Horizons in Microbiology*, Waksman, ed.; *Animal Agents and Vectors of Human Disease*, Faust; *Diseases Transmitted from Animals to Man*, Hull, ed.; *World Distribution of Leishmaniases*, map, American Geographical Society; *La Tozoplasmosi*, Tolentino and Bucalossi; *Viral and Rickettsial Diseases of the Skin, Eye and Mucus Membranes of Man*, Blank; *Control of Communicable Diseases in Man*, 8th ed., American Public Health Association 957
Correspondence 961

NOVEMBER, No. 6

Endemic goiter in Guatemala. J. ANTONIO MUÑOZ, CARLOS PÉREZ AND NEVIN S. SCRIMSHAW 963
Observations on the health of United States personnel living in Cairo, Egypt. A. R. HIGGINS 970
Intestinal parasitic infections in Forsyth County, North Carolina. III. Amebiasis in school children, an index of prevalence. T. T. MACKIE, J. W. MACKIE, C. M. VAUGHN, N. N. GLEASON, B. G. GREENBERG, E. S. NENNINGER, M. N. LUNDE, L. L. A. MOORE, J. A. KLUTTZ AND M. O. TALIAFERO 980
Fumagillin and erythromycin in the treatment of amebiasis. RODNEY C. JUNG, ALBERTO GARCIA-LAVERDE AND FRANK F. KATZ 989
Erythromycin in amebiasis. GORDON MCHARDY, DONOVAN C. BROWNE, ROBERT J. MCHARDY AND SWAN S. WARD 998
Simple aliphatic substrates in the culture of *Entamoeba histolytica*. JOSEPH GREENBERG, D. JANE TAYLOR AND HOWARD W. BOND 1002
Observation of pyrimethamine (Daraprim) as a suppressant of malaria in a small village in Jordan. JOSEPH E. ALICATA AND SA'EB W. DAJANI 1006

Trypanosoma cruzi infection in the Indian monkey. HARRY SENECA AND ABNER WOLF 1009
Studies on the dynamics of experimental transmission of West Nile virus by *Culex molestus*. ALEXANDER S. TAHORI, VELIMIR V. STERK AND NATAN GOLDBLUM 1015
Comparisons of sulfisoxazole with sulfadiazine and thiocymetin with chloramphenicol, in chemotherapy of experimental plague in mice. S. F. QUAN, A. G. MCMANUS AND K. F. MEYER 1028
A brief survey of intestinal parasites of man in the Hashemite Kingdom of Jordan. JOSEPH E. ALICATA AND SA'EB W. DAJANI 1037
Epidemiological study on *Schistosomiasis japonica* in Formosa. H. F. HSÜ, S. Y. LI HSÜ AND L. S. RITCHIE 1042
Treatment of vesical schistosomiasis with stibophen. MAX J. MILLER AND HAROLD P. LYON 1049
Rectosigmoid polyps in schistosomiasis. I. General clinical and pathological considerations. ROBERT M. DIMMETTE AND HARRY F. SPROAT 1057
The value of routine rectal biopsy in the diagnosis of schistosomiasis. AHMED BADRAN, OMAR EL ALFI, WILLIAM C. PFISCHNER, JOHN H. KILLOUGH AND THOMAS W. BURNS 1068
The effect of *Schistosoma mansoni* infections on liver function in mice. II. Further studies on intermediary metabolism. JACK W. DAUGHERTY 1072
Studies on the treatment of *Opisthorchis viverrini* in human infections with quinacrine hydrochloride and chloroquine phosphate. ELVIO H. SADUN, C. CHAMNARNKIT AND S. CHETANASEN 1080
Treatment of multiple intestinal worm infections with piperazine citrate. MARK T. HOEKENGA 1088
Water management planning for malaria prevention in the Damodar Valley, India. JOHN M. HENDERSON 1091
The density of adult *Anopheles* in the neighborhood of an East African village. M. T. GILLIES 1103
Attempt to eradicate *Anopheles* in the malaria zone of Chile. AMADOR NEGHME, JOSÉ GUTIÉRREZ AND RAÚL ALÉE 1114
Studies on schistosomiasis. VII. Observations on some surfactants for dispersing insoluble molluscicides. ROBERT E. FREYTAG, G. W. HUNTER, III AND L. S. RITCHIE 1119
Breeding media of common flies. II. In rural areas. THOMAS W. HAINES 1125
Studies of distribution and habitat of cockroaches in southwestern Georgia, 1952–53. THOMAS W. HAINES AND EUGENE C. PALMER 1131
Complete and spontaneous recovery from the bite of a blue krait snake (*Bungarus caeruleus*). WILLIAM E. HAAST AND MELVIN L. WINER 1135
Books received 1138
Book reviews: *Die Brucellose als Antropo-Zoonose. Febris Undulans, Eine Zusammenfassende Darstellung für Ärzte und Tierärzte*, by Loffler, Moroni, and Frei; *Manual of Medical Helminthology*, by Hackett and Murgatroyd; *Some Physiological Aspects and Consequences of Parasitism*, Cole, ed.; *Reactions with Drug Therapy* by Alexander; *Antisera, Toxoids, Vaccines and Tuberculins in Prophylaxis and Treatment*, by Parish; *Introduction to Parasitology with Special Reference to the Parasites of Man*, by Chandler; *Biochemistry and Physiology of Protozoa*, Volume II, by Hutner and Lwoff; *Entomology (Medical & Veterinary) Including Insecticides and Insect and Rat Control*, by Roy and Brown; *The Therapy of Skin Tuberculosis*, by Riehl; *The Black Flies (Diptera, Simuliidae) of Guatemala and Their Role as Vectors of Onchocerciasis*, by Dalmat; *Ion Exchange and Adsorption Agents in Medicine*, by Martin; *Poliomyelitis*, WHO Monograph Series No. 26 1139

INDEX

A

Abietic acid, derivatives of, III. Results of laboratory screening tests of chemical compounds for molluscicidal activity, 152

ADOLPH, W. H., Some contributions of tropical peoples in the preservation of food materials, 461

African sleeping sickness, chemotherapy of. I. Chemotherapy of experimental *Trypanosoma gambiense* infection in mice with nitrofurazone, 705

AITKEN, T. H. G., see DOWNS, W. G. *et al.*, 837

ALÉE, R., see NEGHME, A. *et al.*, 1114

ALEXANDER, A. D., WETMORE, P. W., EVANS, L. B., JEFFRIES, H., and GLEISER, C. A., Classification of leptospiral isolates from Malaya, Thailand and North Borneo, 492

ALFORD, Jr., H. I., see CALHOUN, E. L., 310

ALICATA, J. E. and DAJANI, S. W., A brief survey of intestinal parasites of man in the Hashemite Kingdom of Jordan, 1037

——, Observations of pyrimethamine (Daraprim) as a suppressant of malaria in a small village in Jordan, 1006

ALMEIDA, J. O. de, LIMA, L. S., and CARVALHO, R. P. S., The value of the quantitative complement-fixation test for syphilis in leprosy, 41

ALVING, A. S., see DERN, R. J. *et al.*, 217

Ameba-bacteria relationship in amebiasis, studies on. Comparative results of the intracecal inoculation of germfree, monocontaminated, and conventional guinea pigs with *Entamoeba histolytica*, 675

Amebae from fecal specimens, the use of penicillin and streptomycin in the routine cultivation of, 472

Amebae, intestinal, the effectiveness of the PVA-fixative technique in revealing, in diagnostic cultures, 479

Amebiasis, epidemiology of: possible influence of water supply, coincident with diverse features of terrain, on intestinal protozoa, 465

Amebiasis, fumagillin and erythromycin in the treatment of, 989

Amebiasis, Erythromycin in, 998

Amebiasis, hepatic, atabrine in, 9

Amebiasis in school children, an index of prevalence, in Forsyth County, North Carolina, 980

Amebiasis, systemic, erythromycin stearate against, in Colombia, 693

Amebiasis, treatment with erythromycin, 699

Amebic hepatitis, laboratory findings and treatment with erythromycin, 812

American Academy of Tropical Medicine, Minutes of the twenty-first annual business meeting, 374

American Society of Tropical Medicine and Hygiene, Transactions of the third annual meeting, Memphis, Tennessee, Nov. 3–6, 1954, 336

——, Constitution and By-Laws, 370

ANDERSON, C. R. and DOWNS, W. G., The isolation of yellow fever virus from the livers of naturally infected red howler monkeys, 662

——, see DOWNS, W. G. *et al.*, 837

ANDERSON, H. H., Discussion of Dr. Harry Most's report on therapy of schistosomiasis, 460

——, see NELSON, T. L. *et al.*, 812

——, NELSON, T. L., CARBONO, C. and DIAZ, J., Erythromycin stearate against systemic amebiasis in Colombia, 693.

Anopheles, a study of the oviposition activity of three species in the laboratory, 557.

Anopheles, attempt to eradicate in the malaria zone of Chile, 1114

Anopheles, density of in the neighborhood of an East African village, 1103

Antiamebic action of 5-chloro-7-diethylaminomethyl-8-quinolinol and of other substituted 8-quinolinols in vitro and in experimental animals, 224

Antivenin, *Latrodectus tredecimguttatus*, effectiveness in protecting laboratory mice against effects of intraperitoneal injections of *Lactrodectus mactans* venom, 762.

Arizona, Phoenix, dispersion of marked American cockroaches from sewer manholes in, 141
Arkansas, incidence of tularemia and Rocky Mountain spotted fever among common ticks of, 310
ARNOLD, J., see DERN, R. J. *et al.*, 217
ASAMI, K. and NAKAMURA, M., Experimental inoculation of bacteria-free *Trichomonas vaginalis* into human vaginae and its effect on the glycogen content of vaginal epithelia, 254
Ascariasis, therapy with piperazine, 947
Ascariasis, treatment of cases of, with piperazine citrate, 326
Asia, Southeast, leptospirosis of man and animals in urban, rural and jungle areas, 29
Atrabrine in hepatic amebiasis, 9

B

BADRAN, A., EL ALFI, O., PFISCHNER, W. C., KILLOUGH, J. H., and BURNS, T. W., The value of routine rectal biopsy in the diagnosis of schistosomiasis, 1068
BAILEY, W. S., see THORSON, R. E. *et al.*, 18
BANG, F. B., Discussion of Dr. Oliver-González' paper, 453
Bat, insectivorous, an additional species naturally infected with rabies, 554
Bats, rabies transmitted by, in British Guiana, 550
BAUMAN, P. M., see OLIVER-GONZÁLEZ, J., 443
BAYLES, ANITA, see THOMPSON, P. E. *et al.*, 224
BENENSON, A. S., see OLIVER-GONZÁLEZ, J., 443
BEUTLER, E., see DERN, R. J. *et al.*, 217
BIBAWI, E., EL DEEB, A. A., and MAHFOUZ, M. M., The portal circulation in hepatic fibrosis associated with bilharziasis, 913
Bilharziasis, portal circulation in hepatic fibrosis associated with, 913
BLAGG, W., SCHLOEGEL, E. L., MANSOUR, N. S., and KHALAF, G. I., A new concentration technic for the demonstration of protozoa and helminth eggs in feces, 23
BLOCK, M., see DERN, R. J. *et al.*, 217
Blue krait snake, complete and spontaneous recovery from the bite of, 1135
BOND, H. W., see GREENBERG, J. *et al.*, 1002
——, see NOLAN, M. O., 152
BOOK REVIEWS
ALEXANDER, Reactions with Drug Therapy, 1140
Am. Geographical Soc., Map: Explored Areas of Arthropod-borne Viral Infections, 379
Am. Geographical Soc., Map of World Distribution of Leishmaniases, Atlas of Diseases, 958
Am. Public Health Assoc., Care of Laboratory Animals, 569
——, Control of Communicable Diseases in Man, 8th ed., 957
ANDREWS, Diseases of the Skin for Practitioners and Students, 568
BLANK, Viral and Rickettsial Diseases of the Skin, Eye and Mucous Membranes of Man, 959
CHANDLER, Introduction to Parasitology with Special Reference to the Parasites of Man, 1141
COLE, (Ed.), Some Physiological Aspects and Consequences of Parasitism, 1139
COOLEY, The Science Book of Wonder Drugs, 160
DALMAT, The Black Flies (Diptera, Simuliidae) of Guatemala and their Role as Vectors of Onchocerciasis, 1144
FAUST, Animal Agents and Vectors of Human Diseases, 957
GALDSTON, The Meaning of Social Medicine, 160
GREEP, (Ed.), Histology, 564
HACKETT and MURGATROYD, Manual of Medical Helminthology, 1139
HARTMAN, The Dynamics of Virus and Rickettsial Infections, 159
HORSFALL, Mosquitoes—Their Bionomics and Relation to Disease, 767
HULL, (Ed.), Diseases Transmitted from Animals to Man, 958
HUTNER, and LWOFF, Biochemistry and Physiology of Protozoa, Vol. II, 1142
KUDO, Protozoology, 156
LILLIE, Histopathologic Technic and Practical Histochemistry, 568
LÖFFLER, *et al.*, Die Brucellose als Antropo-Zoonose. Febris Undulans,

Eine Zusammenfassende Darstellung für Ärzte und Tierärzte, 1138
LUCIA, Wine as Food and Medicine, 569
MACKIE, A Manual of Tropical Medicine, 158
MANSON-BAHR, (Ed.), Manson's Tropical Diseases, 766
MARTIN, Ion Exchange and Adsorption Agents in Medicine, 1145
PARISH, Antisera, Toxoids, Vaccines and Tuberculins in Prophylaxis and Treatment, 1141
POLLITZER, Plague, 565
Report of Second Inter-African Conference on Nutrition, C.C.T.A., 567
RIEHL, The Therapy of Skin Tuberculosis, 1144
RODENWALT (Ed.) Welt-Seuchen-Atlas (World-Atlas of Epidemic Diseases) Part I, 765
ROY and BROWN, Entomology (Medical & Veterinary) Including Insecticides and Insect and Rat Control, 1143
SCHRAMM, Die Biochemie der Viren, 478
SIMONS, Handbook of Tropical Dermatology and Medical Mycology, Vol. II, 157
SIMONS, (Ed.), Medical Mycology, 566
TOLENTINO *et al.*, La Toxoplasmosis, 959
WAKSMAN (Ed.), Perspectives and Horizons in Microbiology, 957
WELCH, Antibiotics Annual 1953–54, 157
WHO Monograph Series, No. 23, Laboratory Techniques in Rabies, 767
— , No. 26, Poliomyelitis, 1145
WOLFF, The Laboratory Diagnosis of Leptospirosis, 158
Books received, 156, 378, 564, 765, 956, 1138
BRADY, F. J., Importance of tropical medicine (Presidential Address), 195
Breeding media of common flies. II. In rural areas, 1125
British Guiana, rabies transmitted by bats in, 550
BROOKE, M. M., see NORMAN, L., 472, 479
BROWN, H. W., Therapy of ascariasis with piperazine, 947
BROWN, H. W., and CHAN, K. F., Treatment of *Enterobius vermicularis* infections with piperazine, 321
BROWNE, D. C., see McHARDY, G. *et al.*, 998
BURCH, T. A., Treatment of wuchereriasis and onchocerciasis with suramin sodium, 332
BURCH, T. A., and GREENVILLE, H. J., Filariasis in Liberia, 47
BURCH, T. A., QUALLS, D. M., and GREENVILLE, H. J., Onchocerciasis in Liberia, 923
BURNS, T. W., see BADRAN, A., *et al.*, 1068

C

Cairo, observations on the health of United States personnel living in, 970
CALHOUN, E. L. and ALFORD, Jr., H. I., Incidence of tularemia and Rocky Mountain spotted fever among common ticks of Arkansas, 310
California, studies on mites as vectors of Western equine and St. Louis encephalitis viruses in, 90
CARBONO, C., see ANDERSON, H. H., 693
CARPENTER, S. J., see TRAPIDO, H., 525
Carrión's disease, treatment of the acute febrile phase with chloramphenicol, 507
CARVALHO, R. P. S., see ALMEIDA, J. O. de *et al.*, 41
CHAMBERLAIN, R. W., and SIKES, R. K., Laboratory investigations on the role of bird mites in the transmission of Eastern and Western equine encephalitis, 106
CHAMNARNKIT, C., see SADUN, E. H. *et al.*, 1080
CHAN, K. F., see BROWN, H. W., 321
Chemotherapy of experimental plague in mice, comparisons of sulfisoxazole with sulfadiazine and thiocymetin with chloramphenicol, 1028
CHETANASEN, S., see SADUN, E. H. *et al.*, 1080
Chloramphenicol, treatment of the acute febrile phase of Carrión's disease, 507
5-chloro 7-diethylaminomethyl -8-quinolinol and other substituted 8-quinolinols in vitro and in experimental animals, anti-amebic action of, 224
Chloroquine, effects of an overdose of, in a pregnant woman, 259
COATNEY, G. R., see SCHMIDT, L. H., 208
Cockroaches, dispersion of marked American, from sewer manholes in Phoenix, Arizona, 141

Cockroaches, studies of distribution and habitat in southwestern Georgia, 1952–53, 1131
COKER, C. M., see OLIVER-GONZÁLEZ, J. *et al.*, 908
Colombia: erythromycin stearate against systemic amebiasis, 693
Coliform paracolon, *Pseudomonas*, and similar groups, the clinical significance of bacteria in. Symposium on diarrheal diseases other than amebiasis, 731
Complete and spontaneous recovery from the bite of a blue krait snake, 1135
Constitution and By-Laws of the American Society of Tropical Medicine and Hygiene, 370
Cortisone, the effect of, on the immune response of the white rat to *Nippostrongylus muris*, 61
Cortisone, treatment of elephantiasis with, in French Oceania, 930
Costa Rica, forest canopy mosquitoes associated with the appearance of sylvan yellow fever in, 1951, 543
Craig Lecture. Recent advances in our knowledge of dengue and sandfly fever, 198
Culex molestus, studies on the dynamics of experimental transmission of West Nile virus by, 1015

D

DAJANI, S. W., see ALICATA, J. E., 1006, 1037
DALMAT, H. T., Cutaneous myiasis of the scalp due to *Dermatobia hominis* (Linnaeus Jr.) (Diptera; Cuterebridae), 334
Daraprim, toxicity studies of pyramethamine, 217
DAUGHERTY, J. W., The effect of *Schistosoma mansoni* infections on liver function in mice. II. Further studies on intermediary metabolism, 1072
DE CAPITO, T., see STEWART, W. H., 718
DEFOLIART, G. R. and PELTON, E. C., A case of human intestinal myiasis caused by *Muscina stabulans* (Fallém), 953
DEHNÉ, E. J., Fifty years of malaria control in the Panama area, 800
Dengue and yellow fever, historical evidence for interference between, 483
Dengue and sandfly fever, recent advances in our knowledge of, Craig Lecture, 198
Dermatobia hominis, cutaneous myiasis of the scalp due to, 334
DERN, R. J., BEUTLER, E., ARNOLD, J., LORINCZ, A., BLOCK, M., and ALVING, A. S., Toxicity studies of pyrimethamine (Daraprim), 217
Diarrheal disease control studies. The relationship of certain environmental factors to the prevalence of *Shigella* infection. Symposium on diarrheal diseases other than amebiasis, 716
Diarrheal disease in Egyptian village children, observation on incidence and etiology of, 271
Diarrheal diseases other than amebiasis, symposium, introduction, 716
Diarrheal disorders, nonamebic nonbacillary, 739
DIAZ, J., see ANDERSON, H. H., 693
Dihydrostreptomycin, sulfadiazine and oxytetracycline as long term prophylaxis agents in a highly endemic environment for shigellosis, 289
DIMMETTE, R. M., and SPROAT, H. F., Rectosigmoid polyps in schistosomiasis. I. General clinical and pathological considerations, 1057
DOETSCHMAN, W. H., see REEVES, W. C. *et al.*, 90
DONALDSON, A. W., see NORMAN, L., 889
DOWNS, W. G., AITKEN, T. H. G., and ANDERSON, C. R., Activities of the Trinidad Regional Virus Laboratory in 1953 and 1954 with special reference to the yellow fever outbreak in Trinidad, B.W.I., 837.
DOWNS, W. G., see ANDERSON, C. R., 662

E

EADS, R. B., see GRIMES, J. E. *et al.*, 554
Eastern and Western equine encephalitis, laboratory investigations on the role of bird mites in the transmission of, 106
Egg output, course of, over a 15-year period in a case of experimentally induced necatoriasis americanus, in the absence of hyperinfection, 756
Egypt, susceptibility of wild mammals to infection by *Schistosoma mansoni* in. Susceptibility studies in schistosomiasis. II. 75
Egyptian village children, observations on

incidence and etiology of diarrheal disease in, 271
EL ALFI, O., see BADRAN, A. *et al.*, 1068
EL DEEB, A. A., see BIBAWI, E. *et al.*, 913
Elephantiasis, treatment of with cortisone in French Oceania, 930
ELSLAGER, E. F., see THOMPSON, P. E. *et al.*, 224
Encephalitis, Eastern and Western equine, laboratory investigations on the role of bird mites in the transmission of, 106
Encephalitis viruses in California, mites as vectors of Western and St. Louis equine, 90
Encephalomyelitis, equine, in Texas, mites as possible vectors or reservoirs of, 119
Endemic goiter in Guatemala, 963
Entamoeba histolytica: comparative results of the intracecal inoculation of germfree, monocontaminated, and conventional guinea pigs with, 675
—— ——, simple aliphatic substrates in the culture of, 1002
—— ——, some factors related to growth on rice products in a simple medium, 822
Enterobius vermicularis, treatment of with piperazine, 321
Epidemiological study on *Schistosomiasis japonica* in Formosa, 1042
Equine encephalomyelitis in Texas, mites as possible vectors or reservoirs of, 119
Erythromycin, amebic hepatitis, laboratory findings and treatment with, 812
——, and fumagillin, in the treatment of amebiasis, 989
—— in amebiasis, 998
—— in treatment of amebiasis, 699
—— stearate against systemic amebiasis in Colombia, 693
Etiology of disease, contribution of medical geography to, 776
EVANS, L. B., see ALEXANDER, A. D., 492
Experimental plague in mice, chemotherapy of, comparisons of sulfisoxazole with sulfadiazine and thiocymetin with chloramphenicol, 1028
EYLES, D. E., see JEFFERY, G. M., 781

F

FELSENFELD, O., FREEMAN, N. L., and MOORING, V. L., Tube and slide technic in the hemagglutination of *Vibrio comma*, 318
Filariasis in Liberia, 47
Flies, breeding media in rural areas, 1125
FLOYD, T. M., see HIGGINS, A. R., 263
——, see HIGGINS, A. R. *et al.*, 271, 281, 289
Fly populations, rural, control in southeastern Georgia with parathion-impregnated cords, 758
FONSECA, J. R. C., see WYKOFF, D. E., 465
Food materials, preservation of, some contributions of tropical peoples, 461
Food processing plants, role in the dissemination of *Salmonella*. Symposium on diarrheal diseases other than amebiasis, 725
Forest canopy mosquitoes associated with the appearance of sylvan yellow fever in Costa Rica, 1951, 543
Forest mosquitoes, a survey of, in relation to sylvan yellow fever in the Panama isthmian area, 525
FRANCO, A., see TRINCÃO, C. *et al.*, 13
FREDERIKSEN, H., Historical evidence for interference between dengue and yellow fever, 483
FREEMAN, N. L., see FELSENFELD, O. *et al.*, 318
French Morocco, a survey of poliomyelitis virus antibodies in, 512
FREYTAG, R. E., HUNTER, G. W. III, and RITCHIE, L. S., Studies on schistosomiasis. VII. Observations on some surfactants for dispersing insoluble molluscicides, 1119
FROTHINGHAM, T. E., Tissue culture applied to the study of Sindbis virus, 863
——, see TAYLOR, R. M. *et al.*, 844
FRYE, W. W., see MELENY, H. E., 769
Fumagillin and erythromicin in the treatment of amebiasis, 989

G

GALINDO, P. and TRAPIDO, H., Forest canopy mosquitoes associated with the appearance of sylvan yellow fever in Costa Rica, 1951, 543
GALINDO, P., see TRAPIDO, H., 525, 665
GALTON, M. M., see HARDY, A. V., 725
GARCIA-LAVERDE, A., see JUNG, R. C. *et al.*, 989
GELFAND, H. M., Studies on the vectors of *Wuchereria bancrofti*, 52

Georgia, south-eastern, control of rural fly populations with parathion-impregnated cords, 758
Georgia, three cases of human infection with *Isospora* in, 1
GHAFFAR, M. A., see GHAFFAR, Y. A., 9
GHAFFAR, M. A. E., see GHAFFAR, Y. A. E., 301
GHAFFAR, Y. A. and GHAFFAR, M. A., Atabrine in hepatic amebiasis, 9
GHAFFAR, Y. A. E. and GHAFFAR, M. A. E., Atypical chronic intestinal shigellosis, 301
GILLIES, M. T., The density of adult *Anopheles* in the neighborhood of an East African village, 1103
GLEASON, N. N., see MACKIE, T. T., *et al.*, 980
GLEISER, C. A., see ALEXANDER, A. D., 492
GOCHENOUR, W. S., see WISSEMAN, C. L. Jr. *et al.*, 29
Goiter, endemic in Guatemala, 963
GOLDBLUM, N., see TAHORI, A. S. *et al.*, 1015
GORDON, H. I., see PHILLIPS, B. P., 675
GORDON, I., The nonamebic nonbacillary diarrheal disorders, 739
GREENBERG, B. G., see MACKIE, T. T. *et al.*, 980
GREENBERG, J., TAYLOR, D. J., and BOND, H. W., Simple aliphatic substrates in the culture of *Entamoeba histolytica*, 1002
GREENVILLE, H. J., see BURCH, T. A., 47
——, see BURCH, T. A. *et al.*, 923
GRIMES, J. E., EADS, R. B., and IRONS, J. V., An additional species of insectivorous bat naturally infected with rabies, 554.
Guatemala, endemic goiter in, 963
GUTIÉRREZ, J., see NEGHME, A. *et al.*, 1114

H

HAAST, W. E. and WINER, M. L., Complete and spontaneous recovery from the bite of a blue krait snake, 1135
HAINES, T. W. and PALMER, E. C., Studies of distribution and habitat of cockroaches in southwestern Georgia, 1952–53, 1131
HAINES, T. W., Breeding media of common flies. II. In rural areas, 1125
HALSTEAD, B. W., see RALLS, R. J., 136
HAMES, C. G., see ROUTH, C. F. *et al.*, 1
HAMMON, W. McD., see REEVES, W. C. *et al.*, 90
HARDY, A. V., and GALTON, M. M., Salmonellosis. The role of food processing plants in the dissemination of *Salmonella*, 725
HARLEY, G. W., and MILLER, M. J., Human trypanosomiasis in northeastern Liberia, 249
Hashemite Kingdom of Jordan, a brief survey of intestinal parasites, 1037
Health of United States personnel living in Cairo, observations on, 970
Helicosporous fungi, spores of resembling microfilariae in blood films, 889
Helminth eggs and protozoa in feces, a new concentration technic for the demonstration of, 23
Hemagglutination of *Vibrio comma*, tube and slide technic in, 318
HEMPHILL, E. C., see STEWART, W. H., 718
HENDERSON, J. M., Water management planning for malaria prevention in the Damodar Valley, India, 1091
Hepatic amebiasis, atabrine in, 9
—— fibrosis, portal circulation in, associated with bilharziasis, 913
HIGGINS, A. R., Observations on the health of United States personnel living in Cairo, 970
—— and FLOYD, T. M., Studies in shigellosis. I. General considerations, locale of studies, and methods, 263
——, FLOYD, T. M., and KADER, M. A., Studies in shigellosis. II. Observations on incidence and etiology of diarrheal disease in Egyptian village children, 271.
—— III. A controlled evaluation of a monovalent *Shigella* vaccine in a highly endemic environment, 281
—— IV. A controlled trial of sulfadiazine, dihydrostreptomycin and oxytetracycline as long term prophylaxis agents in a highly endemic environment for shigellosis, 289
HOEKENGA, M. T., The treatment of malaria with hydroxychloroquine, 221
——, Treatment of multiple intestinal worm infections with piperazine citrate, 1088

HOERLEIN, B. F., see THORSON, R. E. *et al.*, 18
Honduras, north coast, investigation of a sylvan yellow fever epizootic in 1954, 665
HORSTMANN, D. M., see PAUL, J. R., 512
HSÜ, H. F., Discussion of the paper by Lawrence S. Ritchie, 442
——, HSÜ, S. Y. L., and RITCHIE, L. S., Epidemiological study on *Schistosomiasis japonica* in Formosa, 1042
HSÜ, S. Y. L., see HSÜ, H. F. *et al.*, 1042
HUNTER, G. W., III, see FREYTAG, R. E. *et al.*, 1119
HURLBUT, H. S., see TAYLOR, R. M. *et al.*, 844
——, see WORK, T. H. *et al.*, 872
Hydroxychloroquine, the treatment of malaria with, 221

I

IDES, D., see SENECA, H., 833
Infectivity to mosquitoes of *Plasmodium falciparum* as related to gametocyte density and duration of infection, 781
Intestinal parasites of man in the Hashemite Kingdom of Jordan, a brief survey, 1037
Intestinal parasites of natives living in Southwest Sudan, a cursory survey of, 895
Intestinal parasitic infections in Forsyth County, North Carolina. III. Amebiasis in school children, an index of prevalence, 980
Intestinal parasitism in an irrigated community of western Nebraska, 901
IRONS, J. V., see GRIMES, J. E., 554
Irradiation of *Trichinella spiralis*, effect of on immunity and its public health implication, 941
Isospora in Georgia, three cases of human infection with, 1
IZUMI, E. M., see SULKIN, S. E. *et al.*, 119

J

JACKSON, W. B., and MAIER, P. P., Dispersion of marked American cockroaches from sewer manholes in Phoenix, Arizona, 141
JEFFERY, G. M., and EYLES, D. E., Infectivity to mosquitoes of *Plasmodium falciparum* as related to gametocyte density and duration of infection, 781
JEFFRIES, H., see ALEXANDER, A. D., 492
JONES, M. M., see NELSON, E. C., 822
JUNG, R. C., GARCIA-LAVERDE, A., and KATZ, F. F., Fumagillin and erythromycin in the treatment of amebiasis, 989

K

KADER, M. A., see HIGGINS, A. R. *et al.*, 271, 281, 289
KATZ, F. F., see JUNG, R. C. *et al.*, 989
KEEGAN, H. L., Effectiveness of *Latrodectus tredecimguttatus* antivenin in protecting laboratory mice against effects of intraperitoneal injections of *Latrodectus mactans* venom, 762
KELLEY, G. W., Jr., Intestinal parasitism in an irrigated community of western Nebraska, 901
KERREST, J. see MARKELL, E. K., 930
KHALAF, G. I., see BLAGG, W. *et al*, 23
KILLOUGH, J. H., see BADRAN, A., *et al.*, 1068
KILPATRICK, J. W., The control of rural fly populations in southeastern Georgia with parathion-impregnated cords, 758
KINGSTON, J. R., see TAYLOR, R. M. *et al.*, 844
KJAER, K., Effects of an overdose of chloroquine in a pregnant woman, 259
KLUTTZ, J. A., see MACKIE, T. T. *et al.*, 980
KUNTZ, R. E., Biology of the schistosome complexes, 383
—— and MALAKATIS, G. M., Susceptibility studies in schistosomiasis. II. Susceptibility of wild mammals to infection by *Schistosoma mansoni* in Egypt, with emphasis on rodents, 75
——, LAWLESS, D. K., and MANSOUR, N. S., A cursory survey of the intestinal parasites of natives living in Southwest Sudan, 895

L

LANCASTER, W. E., see WISSEMAN, C. L. JR. *et al.*, 29
LA RUE, G. R., Discussion of the paper by Robert E. Kuntz, 414

Latrodectus tredecimguttatus antivenin effectiveness in protecting laboratory mice against effects of intraperitoneal injections of *Latrodectus mactans* venom, 762
LAWLESS, D. K., see KUNTZ, R. E. *et al.*, 895
Leishmaniasis, imported visceral, a report of a case of, of a dog in the United States, 18
Leprosy, the value of the quantitative complement-fixation test for syphilis in, 41
Leptospiral isolates, classification of, from Malaya, Thailand and North Borneo, 492
Leptospirosis of man and animals in urban, rural and jungle areas of Southeast Asia, 29
Liberia, filariasis in, 47
——, Northeastern, human trypanosomiasis in, 249
——, onchocerciasis in, 923
——, studies on the vectors of *Wuchereria bancrofti* in, 52
LIMA, L. S., see ALMEIDA, J. A. de *et al.*, 41
Liver function in mice, the effect of *Schistosoma mansoni* infections on, 1072
LORINCZ, A. see DERN, R. J. *et al.*, 217
LUNDE, M. N., see MACKIE, T. T. *et al.*, 980
LYON, H. P., see MILLER, M. J., 1049

M

McCABE, L. J. Jr., see STEWART, W. H., 718
McCARTHY, D. A., see THOMPSON, P. E. *et al.*, 224
McCLURE, H. E., see REEVES, W. C. *et al.*, 90
McCROAN, J. E., see ROUTH, C. F. *et al.*, 1
McHARDY, G., BROWNE, D. C., McHARDY, R. J., and WARD, S. S., Erythromycin in Amebiasis, 998
McHARDY, R. J., see McHARDY, G. *et al.*, 998
MACKIE, J. W., see MACKIE, T. T. *et al.*, 980
MACKIE, T. T., MACKIE, J. W., VAUGHN, C. M., GLEASON, N. N., GREENBERG, B. G., NENNINGER, E. S., LUNDE, M. N., MOORE, L. L. A., KLUTTZ, J. A. and TALIAFERO, M. O., Intestinal parasitic infections in Forsyth County, North Carolina. III. Amebiasis in school children, an index of prevalence, 980
McMANUS, A. G., see QUAN, S. F. *et al.*, 1028
McMULLEN, D. B., Introduction to the schistosomiasis symposium, 381
MAGATH, T. B., and THOMPSON, J. H. Jr., The effect of irradiation of *Trichinella spiralis* on immunity and its public health implication, 941
MAHFOUZ, M. M., see BIBAWI, E. *et al.*, 913
MAIER, P. P., see JACKSON, W. B., 141
MALAKATIS, G. M., see KUNTZ, R. E., 75
Malaria chemotherapy (U. S. A.) 1946 to 1954, review of investigations in, 208
——, fifty years of control in the Panama area, 800
——, observation of pyrimethamine (Daraprim) as a suppressant of, in a small village in Jordan, 1006
—— parasites in preparations from clotted blood, microscopical detection and identification, 712
——, suppression of by monthly drug administration, 790
——, treatment of with hydroxychloroquine, 221
Malaya, Thailand and North Borneo, classification of leptospiral isolates from, 492
MANSOUR, N. S., see BLAGG, W. *et al.*, 23
——, see KUNTZ, R. E. *et al.*, 895
MARKELL, E. K., and KERREST, J., Treatment of elephantiasis with cortisone in French Oceania. A preliminary report, 930
MAY, J. M., The contribution of medical geography to the etiology of disease, 776
Medical geography, contribution of, in the etiology of disease, 776
MELENEY, H. E., and FRYE, W. W., Teaching and research in parasitology and tropical medicine in medical schools of the United States: a survey and a fellowship program, 769
MELVIN, D. M., The microscopical detection and identification of malaria parasites in preparations from clotted blood, 712

Membership list of the American Society of Tropical Medicine and Hygiene, 161
MEYER, K. F., see QUAN, S. F. *et al.*, 1028
Microfilariae, spores of helicosporous fungi resembling them in blood films, 889
MILLER, J. H., see SWARTZWELDER, C. *et al.*, 326
MILLER, M. J., see HARLEY, G. W., 249
——, Suppression of malaria by monthly drug administration, 790
——, and LYON, H. P., Treatment of vesical schistosomiasis with stibophen, 1049
Minutes of the twenty-first annual business meeting of the American Academy of Tropical Medicine, 374
Mites as possible vectors or reservoirs of equine encephalomyelitis in Texas, 119
Mites as vectors of Western equine and St. Louis encephalitis viruses in California, 90
Mites, bird, laboratory investigations on the role of, in the transmission of Eastern and Western equine encephalitis, 106
Molluscicidal activity, results of laboratory screening tests of chemical compounds for. III. Derivatives of abietic acid, 152
Molluscicides, observations on some surfactants for dispersing insoluble, 1119
Mongoose, the control of, in Puerto Rico, 147
Monkeys, red howler, isolation of yellow fever virus from the livers of naturally infected, 662
MOORE, L. L. A., see MACKIE, T. T. *et al.*, 980
MOORING, VIRGINIA L., see FELSENFELD, O. *et al.*, 318
Moray eel poisoning and a preliminary report on the action of the toxin, 136
MOST, H., Treatment of schistosomiasis, 455
MÜHLPFORDT, H., see TRINCÃO, C. *et al.*, 13
MUÑOZ, J. A., PÉREZ, C., and SCRIMSHAW, N. S., Endemic goiter in Guatemala, 963
Muscina stabulans (Fallén), A case of human intestinal myiasis caused by, 953
Myiasis, cutaneous, of the scalp due to *Dermatobia hominis*, 334
Myiasis, human intestinal, a case caused by *Muscina stabulans* (Fallén), 953

N

NAKAMURA, M., see ASAMI, K., 254
Nebraska, western, intestinal parasitism in an irrigated community of, 901
Necatoriasis americanus, experimentally induced, course of egg output over a 15 year period in a case in the absence of hyperinfection, 756
NEHAUL, B. B. G., Rabies transmitted by bats in British Guiana, 550
NEGHME, A., GUTIÉRREZ, J., and ALÉE, R., Attempt to eradicate *Anopheles* in the malaria zone of Chile, 1114
NELSON, E. C., and JONES, M. M., Some factors related to *Entamoeba histolytica* growth on rice products in a simple medium, 822
NELSON, T. L., see ANDERSON, H. H., 693
——, ANDERSON, H. H., and THOMAS, O., Amebic hepatitis, laboratory findings and treatment with erythromycin, 812
NENNINGER, E. S., see MACKIE, T. T. *et al.*, 980
Nile Delta, indigenous wild birds of, as potential West Nile virus circulating reservoirs, 872
Nippostrongylus muris, the effect of cortisone on the immune response of, the white rat to, 61
Nitrofurazone in chemotherapy of experimental *Trypanosoma gambiense* infection in mice, 705
NOGUEIRA, A., see TRINCÃO, C. *et al.*, 13
NOLAND, M. O., and BOND, H. W., Results of laboratory screening tests of chemical compounds for molluscicidal activity. III. Derivatives of abietic acid, 152
NORMAN, L., and BROOKE, M. M., The effectiveness of the PVA-fixative technique in revealing intestinal amebae in diagnostic cultures, 479
——, and BROOKE, M. M., The use of penicillin and streptomycin in the routine cultivation of amebae from fecal specimens, 472
——, and DONALDSON, A. W., Spores of helicosporous fungi resembling microfilariae in blood films, 889
North Carolina, intestinal parasitic infections in Forsyth County, 980

O

OLIVER-GONZÁLEZ, J., BAUMAN, P. M., and BENENSON, A. S., Immunological aspects of infections with *Schistosoma mansoni*, 443

——, RAMOS, F. L., and COKER, C. M., Serological reactions against egg antigens as an aid in the evaluation of therapy in schistosomiasis, 908

OLIVIER, L. J., The natural history and control of the snails that transmit the schistosomes of man, 415

Onchocerciasis and wuchereriasis, treatment of, with suramin sodium, 332

Onchocerciasis in Liberia, 923

Opisthorchis viverrini, studies on treatment in human infections with quinacrine hydrochloride and chloroquine phosphate, 1080

Oviposition activity, a study of, of three species of *Anopheles* in the laboratory, 557

Oxysteroids, effect of on *Trypanosoma cruzi* infection in mice, 833

Oxytetracycline, dihydrostreptomycin and sulfadiazine as long term prophylaxis agents in a highly endemic environment for shigellosis, 289

P

PACKCHANIAN, A., Chemotherapy of African sleeping sickness. I. Chemotherapy of experimental *Trypanosoma gambiense* infection in mice (*Mus musculus*) with nitrofurazone, 705

PALMER, E. C., see HAINES, T. W., 1131

PALMER, E. D., Course of egg output over a 15 year period in a case of experimentally induced necatoriasis americanus, in the absence of hyperinfection, 756

Pan American Sanitary Bureau yellow fever conference, 21–22 December, 1954, 571

Panama area, fifty years of malaria control, 800

Panama isthmian area, a survey of forest mosquitoes in relation to sylvan yellow fever in, 525

Parasitology and tropical medicine, teaching and research in medical schools of the United States, 769

Parathion-impregnated cords in control of rural fly populations in south-eastern Georgia, 758

PAUL, J. R., and HORSTMANN, D. M., A survey of poliomyelitis virus antibodies in French Morocco, 512

PAYNE, E. H., see URTEAGA, B., O., 507.

PELTON, E. C., see DEFOLIART, G. R., 953

Penicillin and streptomycin, use of, in the routine cultivation of amebae from fecal specimens, 472

PÉREZ, C. see MUÑOZ, J. A. *et al.*, 963

PFISCHNER, W. C., see BADRAN, A. *et al.*, 1068

PHILLIPS, B. P., WOLFE, P. A., REES, C. W., GORDON, H. A., WRIGHT, W. H., and REYNIERS, J. A., Studies on the ameba-bacteria relationship in amebiasis. Comparative results of the intracecal inoculation of germfree, monocontaminated, and conventional guinea pigs with *Entamoeba histolytica*, 675

Phoenix, Arizona, dispersion of marked American cockroaches from sewer manholes in, 141

PIMENTEL, D., The control of the mongoose in Puerto Rico, 147

PINTO, A. R., see TRINCÃO, C. *et al.*, 13

Piperazine, therapy of ascariasis with, 947

—— citrate, treatment of cases of ascariasis with, 326

——, treatment of *Enterobius vermicularis* infections with, 321

—— citrate, treatment of multiple intestinal worm infections with, 1088

Plasmodium falciparum, infectivity to mosquitoes of, as related to gametocyte density and duration of infection, 781

Poliomyelitis virus antibodies, a survey of, in French Morocco, 512

Portal circulation in hepatic fibrosis associated with bilharziasis, 913

Preservation of food materials, some contributions of tropical peoples, 461

Presidential address. Importance of tropical medicine, 195

Protozoa and helminth eggs in feces, a new concentration technic for the demonstration of, 23

Pseudomonas, bacteria in the coliform paracolon, and similar groups, clinical significance of. Symposium on diarrheal diseases other than amebiasis, 731

Puerto Rico, the control of the mongoose in, 147
Puromycin, first report on the treatment of sleeping sickness with, 13
PVA-fixative technique, the effectiveness of, in revealing intestinal amebae in diagnostic cultures, 479
Pyrimethamine (Daraprim), observation of as a suppressant of malaria in a small village in Jordan, 1006
—— (Daraprim), toxicity studies of, 217

Q

QUALLS, D. M., see BURCH, T. A. *et al.*, 923
QUAN, S. S., McMANUS, A. G., and MEYER, K. F., Comparisons of sulfisoxazole with sulfadiazine and thiocymetin with chloramphenicol, in chemotherapy of experimental plague in mice, 1028

R

Rabies, an additional species of insectivorous bat naturally infected with, 554
Rabies transmitted by bats in British Guiana, 550
RALLS, R. J., and HALSTEAD, B. W., Moray eel poisoning and a preliminary report on the action of the toxin, 136
RAMOS, F. L., see OLIVER-GONZÁLEZ, J. *et al.*, 908
Rectosigmoid polyps in schistosomiasis, 1057
REES, C. W., see PHILLIPS, B. P., 675
REEVES, W. C., HAMMON, W. McD., DOETSCHMAN, W. H., McCLURE, H. E., and SATHER, G., Studies on mites as vectors of Western equine and St. Louis encephalitis viruses in California, 90
REINERTSON, J. W., see THOMPSON, P. E. *et al.*, 224
REYNIERS, J. A., see PHILLIPS, B. P., 675
RITCHIE, L. S., The biology and control of the amphibious snails that serve as intermediate hosts for *Schistosoma japonicum*, 426
——, see FREYTAG, R. E. *et al.*, 1119
——, see HSÜ, H. F. *et al.*, 1042
——, see WYKOFF, D. W., 465
Rocky Mountain spotted fever and tularemia among common ticks of Arkansas, 310
ROUTH, C. F., McCROAN, J. E. JR., and HAMES, C. G., Three cases of human infection with *Isospora* in Georgia, 1

S

SABIN, A. B., Recent advances in our knowledge of dengue and sandfly fever. Craig Lecture, 198
SADUN, E. H., CHAMNARNKIT, C., and CHETANASEN, S., Studies on the treatment of *Opisthorchis viverrini* in human infections with quinacrine hydrochloride and chloroquine phosphate, 1080
St. Louis and Western equine encephalitis viruses in California, mites as vectors of, 90
Salmonellosis. The role of food processing plants in the dissemination of *Salmonella*, 725
Sandfly fever and dengue, resent advances in our knowledge of, Craig Lecture, 198
SAPPENFIELD, R. W., see SWARTZWELDER, C. *et al.*, 326
SATHER, G., see REEVES, W. C. *et al.*, 90
Schistosoma japonicum, the biology and control of the amphibious snails that serve as intermediate hosts for, 426
Schistosoma mansoni, immunological aspects of infections with, 443.
—— in Egypt, susceptibility of wild mammals to infection by, with emphasis on rodents, 75
—— infections, the effect of, on liver function in mice, 1072
Schistosome complexes, biology of, 383
Schistosomiasis japonica in Formosa, epidemiological study on, 1042
Schistosomiasis, rectosigmoid polyps in, 1057
——, serological reactions against egg antigens as an aid in the evaluation of therapy, 908
——, studies on. Observations on some surfactants for dispersing insoluble molluscicides, 1119
——, susceptibility studies in. II. Susceptibility of wild mammals to infection by *Schistosoma mansoni* in Egypt, with emphasis on rodents, 75
—— symposium, introduction to, 381
——, the value of routine rectal biopsy in the diagnosis of, 1068
SCHLOEGEL, E. L., see BLAGG, W. *et al.*, 23

SCHMIDT, L. H., and COATNEY, G. R., Review of investigations in malaria chemotherapy (U. S. A.) 1946 to 1954, 208
SCRIMSHAW, N. S., see MUÑOZ, J. A. *et al.*, 963
SEIBOLD, H. R., see THORSON, R. E. *et al.*, 18
SENECA, H., and IDES, D., The effect of oxysteroids on *Trypanosoma cruzi* infection in mice, 833
——, and WOLF, A., *Trypanosoma cruzi* infection in the Indian monkey, 1009
Serological reactions against egg antigens as an aid in the evaluation of therapy in schistosomiasis, 908
Shigella infection, relationship of certain environmental factors to the prevalence of. Symposium on diarrheal diseases other than amebiasis, 718
Shigella vaccine, a controlled evaluation of, in a highly endemic environment, 281
Shigellosis, atypical chronic intestinal, 301
——, studies in, 263, 271, 289
SIKES, R. K., see CHAMBERLAIN, R. W., 106
Simple aliphatic substrates in the culture of *Entamoeba histolytica*, 1002
Sindbis virus: a newly recognized arthropod-transmitted virus, 844
——, tissue culture applied to the study of, 863
Sleeping sickness, first report on the treatment of with Puromycin, 13
SMADEL, J. E., see WISSEMAN, C. L. JR. *et al.*, 29
Snails, amphibious, that serve as intermediate hosts for *Schistosoma japonicum*, the biology and control of, 426
—— that transmit the schistosomes of man, the natural history and control of, 415
Spores of helicosporous fungi resembling microfilariae in blood films, 889
SPROAT, H. F., see DIMMETTE, R. M., 1057
STERK, V. V., see TAHORI, A. S. *et al.*, 1015
STEWART, W. H., McCABE, L. J. JR., HEMPHILL, E. C., and DE CAPITO, T. Symposium on diarrheal diseases other than amebiasis: diarrheal disease control studies. The relationship of certain environmental factors to the prevalence of *Shigella* infection, 718
Stibophen, treatment of vesical schistosomiasis with, 1049
Sulfadiazine, dihydrostreptomycin and oxytetracycline as long term prophylaxis agents in a highly endemic environment for shigellosis, 289
SULKIN, S. E., WISSEMAN, C. L. JR., IZUMI, E. M., and ZARAFONETIS, C., Mites as possible vectors or reservoirs of equine encephalomyelitis in Texas, 119
Suramin sodium, treatment of wuchereriasis and onchocerciasis with, 332
SWARTZWELDER, C., MILLER, J. H., and SAPPENFIELD, R. W., The treatment of cases of ascariasis with piperazine citrate. With observations of the effect of the drug on other helminthiases, 326
Sylvan yellow fever in Costa Rica, 1951, forest canopy mosquitoes associated with the appearance of, 543
Sylvan yellow fever in the Panama isthmian area, a survey of forest mosquitoes in relation to, 525
Syphilis in leprosy, the value of the quantitative complement-fixation test for, 41

T

TAHORI, A. S., STERK, V. V. and GOLDBLUM, N., Studies on the dynamics of experimental transmission of West Nile virus by *Culex molestus*, 1015
TALIAFERO, M. O., see MACKIE, T. T. *et al.*, 980
TAYLOR, D. J., see GREENBERG, J. *et al.*, 1002
TAYLOR, R. M., HURLBUT, H. S., WORK, T. H., KINGSTON, J. R., and FROTHINGHAM, T. E., Sindbis virus: a newly recognized arthropod-transmitted virus, 844
——, see WORK, T. H. *et al.*, 872
Teaching and research in parasitology and tropical medicine in medical schools of the United States, 769
Technic, a new concentration, for the demonstration of protozoa and helminth eggs in feces, 23
Texas, mites as possible vectors or reservoirs of equine encephalomyelitis in, 119
Therapy of ascariasis with piperazine, 947

THOMAS, O., see NELSON, T. L. *et al.*, 812
THOMPSON, J. R. Jr., see MAGATH, T. B., 941
THOMPSON, P. E., REINERTSON, J. W., BAYLES, A., McCARTHY, D. A., and ELSLAGER, E. F., Antiamebic action of 5-chloro-7-diethylaminomethyl-8-quinolinol and of other substituted 8-quinolinols in vitro and in experimental animals, 224
THORSON, R. E., BAILEY, W. S., HOERLEIN, B. F., and SEIBOLD, H. R., A report of a case of imported visceral leishmaniasis of a dog in the United States, 18
Tissue culture applied to the study of Sindbis virus, 863
Transactions of the American Society of Tropical Medicine and Hygiene. Third Annual Meeting, Memphis, Tenn., Nov. 3–6 1954, 336
TRAPIDO, H., and GALINDO, P., The investigation of a sylvan yellow fever epizootic on the north coast of Honduras, 1954, 665
——, GALINDO, P., and CARPENTER, S. J., A survey of forest mosquitoes in relation to sylvan yellow fever in the Panama isthmian area, 525
——, see GALINDO, P., 543
TRAUB, R., see WISSEMAN, C. L. JR. *et al.*, 29
Treatment of multiple intestinal worm infections with piperazine citrate, 1088
Treatment of vesical schistosomiasis with stibophen, 1049
Trichinella spiralis, the effect of irradiation of on immunity and its public health implication, 941
Trichomonas vaginalis, bacteria-free, experimental inoculation of, into human vaginae and its effect on the glycogen content of vaginal epithelia, 254
TRINCÃO, C., FRANCO, A., NOGUEIRA, A., PINTO, A. R., and MÜHLPFORDT, H., First report on the treatment of sleeping sickness with Puromycin, 13
Trinidad Regional Virus Laboratory, activities in 1953 and 1954 with special reference to the yellow fever outbreak in Trinidad, B.W.I., 837
Tropical medicine, importance of. (Presidential Address), 195
Trypanosoma cruzi infection in the Indian monkey, 1009
—— infection in mice, effect of oxysteroids on, 833
Trypanosoma gambiense infection in mice, experimental, chemotherapy with nitrofurazone, 705
Trypanosomiasis, human, in northeastern Liberia, 249
Tularemia and Rocky Mountain spotted fever among common ticks of Arkansas, 310

U

United States, a report of a case of imported visceral leishmaniasis of a dog in, 18
United States, review of investigations in malaria chemotherapy, 1946 to 1954, 208
URTEAGO, B. O., and PAYNE, E. H., Treatment of the acute febrile phase of Carrión's disease with chloramphenicol, 507

V

Value of routine rectal biopsy in the diagnosis of schistosomiasis, 1068
VAN DER SCHALIE, H., Discussion of the paper by L. J. Olivier, 424
VAUGHN, C. M., see MACKIE, T. T. *et al.*, 980
Venom, *Latrodectus mactans*, effectiveness of *Latrodectus tredecimguttatus* antivenin in protecting laboratory mice against effect of intraperitoneal injections of, 762
Vesical schistosomiasis, treatment with stibophen, 1049
Vibrio comma, tube and slide technic in hemagglutination of, 318
VILLAREJOS, V. M., Treatment of amebiasis with erythromycin, 699
Virus, arthropod-transmitted, newly recognized Sindbis virus, 844

W

WALLIS, R. C., A study of the oviposition activity of three species of *Anopheles* in the laboratory, 557
WARD, S. S., see McHARDY, G. *et al.*, 998
Water management planning for malaria prevention in the Damodar Valley, India, 1091

WATT, J., Introduction to symposium on diarrheal diseases other than amebiasis, 716
WEGMAN, M. E., The clinical significance of bacteria in the coliform paracolon, *Pseudomonas*, and similar groups, 731
WEINSTEIN, P. P., The effect of cortisone on the immune response of the white rat to *Nippostrongylus muris*, 61
West Nile virus, indigenous wild birds of the Nile Delta as potential circulating reservoirs, 872
——, studies on the dynamics of experimental transmission by *Culex molestus*, 1015
Western and Eastern equine encephalitis, laboratory investigations on the role of bird mites in the transmission of, 106
Western equine and St. Louis encephalitis viruses in California, mites as vectors of, 90
WETMORE, P. W., see ALEXANDER, A. D., 492
WINER, M. L., see HAAST, W. E., 1135
WISSEMAN, C. L., Jr., see SULKIN, S. E. *et al.*, 119
——, TRAUB, R., GOCHENOUR, W. S. JR., SMADEL, J. E., and LANCASTER, W. E., Leptospirosis of man and animals in urban, rural and jungle areas of Southeast Asia, 29
WOLF, A., see SENECA, H., 1009
WOLFE, P. A., see PHILLIPS, B. P., 675
WORK, T. H., HURLBUT, H. S., and TAYLOR, R. M., Indigenous wild birds of the Nile Delta as potential West Nile virus circulating reservoirs, 872
——, see TAYLOR, R. M. *et al.*, 844
WRIGHT, W. H., see PHILLIPS, B. P., 675
Wuchereria bancrofti, studies on the vectors of, in Liberia, 52
Wuchereriasis and onchocerciasis, treatment of, with suramin sodium, 332
WYCKOFF, D. E., FONSECA, J. R. C., and RITCHIE, L. S., Epidemiology of amebiasis: possible influence of water supply, coincident with diverse features of terrain, on the occurrence of intestinal protozoa, 465

Y

Yellow fever and dengue, historical evidence for interference between, 483
—— conference, 21–22 December 1954. Held under the auspices of the Pan-American Sanitary Bureau, 571
—— outbreak in Trinidad, activities of the Trinidad Regional Virus Laboratory in 1953 and 1954, 837
——, sylvan, investigation of epizootic on north coast of Honduras, 1954, 665
—— virus, isolation from livers of naturally infected red howler monkeys, 662

Z

ZARAFONETIS, C., see SULKIN, S. E. *et al.*, 119